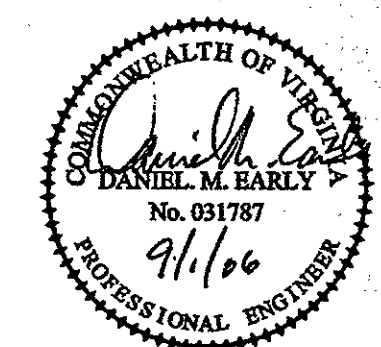




**ACS
DESIGN**

ENGINEERING • SURVEYING
LANDSCAPE ARCHITECTURE
CONSTRUCTION MANAGEMENT

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ROANOKE, VIRGINIA 24017
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The Coves at Smith Mountain Lake
Optima Properties-Smith Mountain Lake, LLC
Franklin County, Virginia

DRAWN BY: AH
DESIGNED BY: DME
CHECKED BY: DME
DATE: 01 MAY 2006
JOB NUMBER: 05271

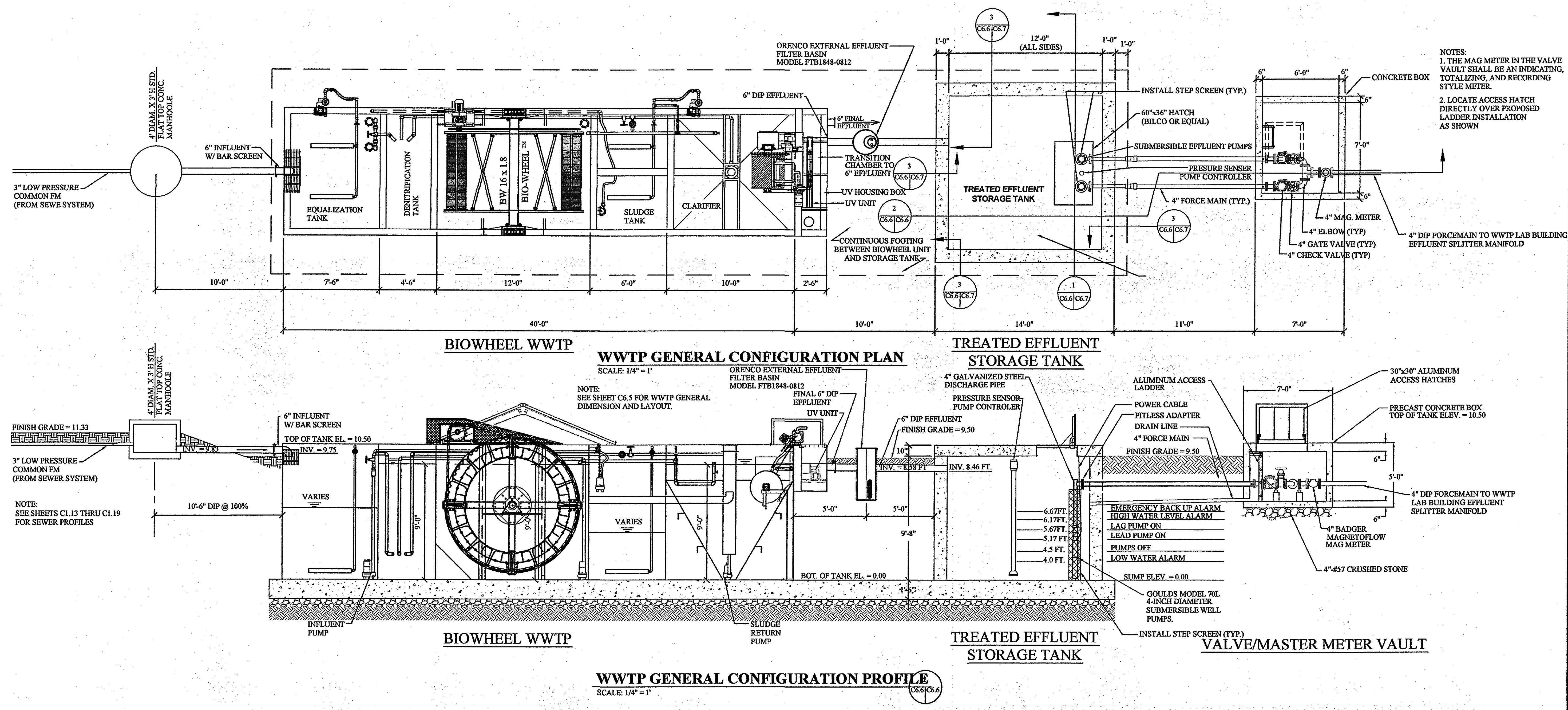
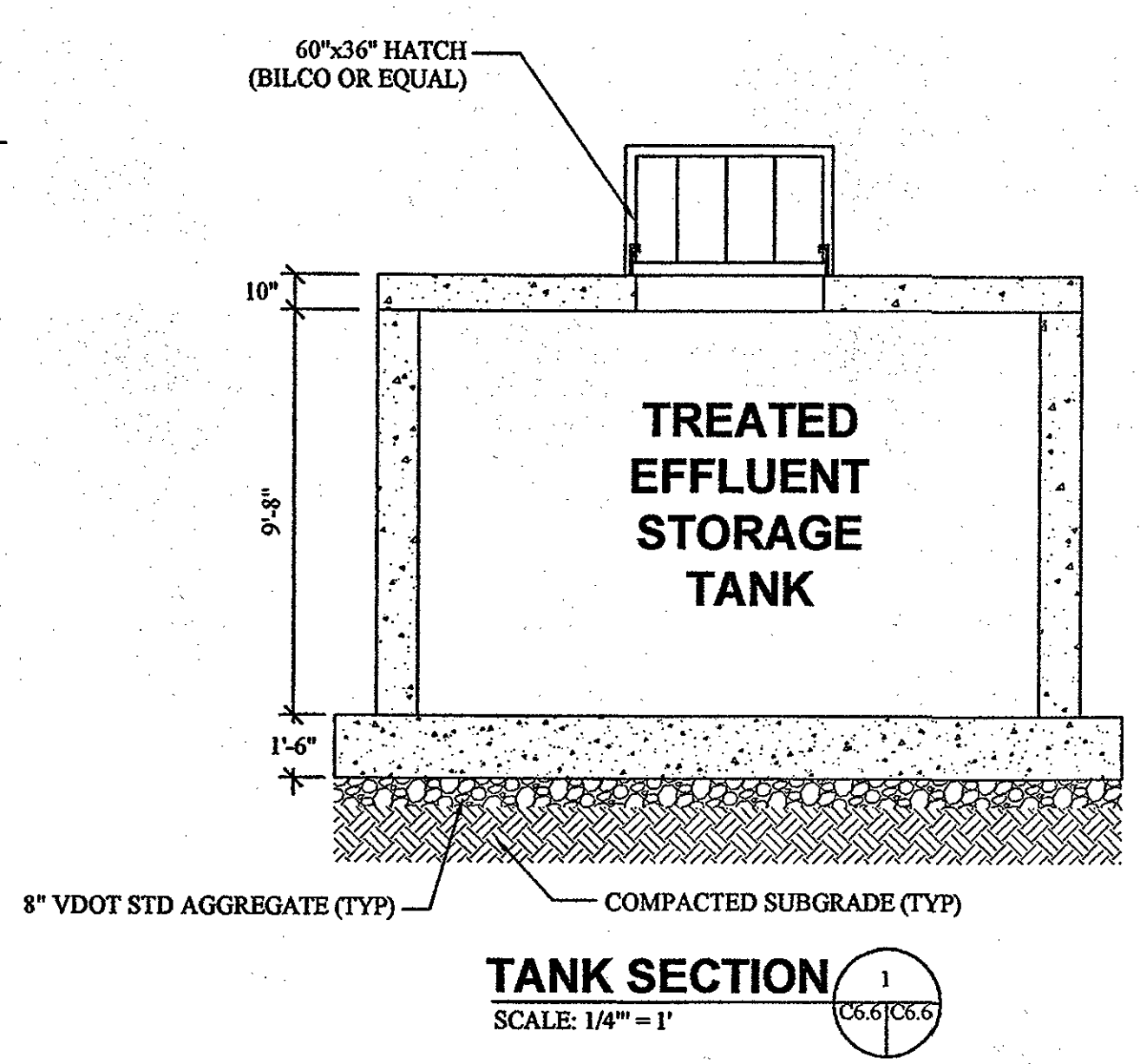
REVISIONS:
No. 1 Per VDMFGACS 8/23/06
No. 2 5/11/07
No. 3 Final for construction
No. 4

SHEET NO.:
C6.6

WWTP GENERAL
CONFIGURATION
PLAN

EFFLUENT STORAGE TANK & VALVE VAULT SPECIFICATIONS

1. All concrete shall have a compressive strength FC = 4,000 PSI (28 day strength) except as noted.
2. Reinforcing shall conform to ASTM 615-80, Grade 60.
3. Minimum clear cover shall be 2" unless otherwise noted.
4. Stone bedding shall be VDOT STD #57 crushed aggregate.
5. Through wall connections shall be made with Press-Seal or Kor-N-Seal gaskets with stainless steel straps.
6. All concrete tankage joints shall be water tight.
7. All concrete anchor bolts shall be stainless steel type 304L with stainless steel hardware.
8. All concrete taps shall be made into a boss (as applicable)
9. Precast concrete design shall be the responsibility of the pre-casting manufacturer.
10. See the WWTP site plan for further information regarding final installation of the treatment plant and appurtenances.
11. See wiring/electrical schematics sheet, with generator connection, auxiliary connection, and auto dialer schematics.
12. The WWTP auto dialer shall contact a manned station to report any malfunctions. The owner/operator shall identify the named station prior to WWTP startup.
13. All pump station and valve vault piping shall be galvanized steel.
14. Pump activation controls shall be adjusted so that effluent tank pump-down volumes do not exceed 60 drainfield pipe capacity. The contractor shall verify available drainfield pipe capacity and adjust float elevations accordingly. The consulting engineer and the Virginia Department of Health shall be notified of any adjustments prior to making actual adjustments.
14. Install step screen in effluent storage tank. Install per manufacturers instructions.



- NOTES:
1. THE MAG METER IN THE VALVE VAULT SHALL BE AN INDICATING, TOTALIZING, AND RECORDING STYLE METER.
 2. LOCATE ACCESS HATCH DIRECTLY OVER PROPOSED LADDER INSTALLATION AS SHOWN

EMERGENCY BACK UP ALARM
HIGH WATER LEVEL ALARM
LAG PUMP ON
LEAD PUMP ON
PUMPS OFF
LOW WATER ALARM

SUMP ELEV. = 0.00
GOULDS MODEL 70L
4-INCH DIAMETER
SUBMERSIBLE WELL
PUMPS.

INSTALL STEP SCREEN (TYP.)
VALVE/MASTER METER VAULT